

## RADIATION TEST REPORT

PRODUCT:	AD780AFQMLR
GAMMA:	30k, 50k, 100k
GAMMA SOURCE:	Co60/TM1019 Condition A
DOSE RATE:	173 Rad(si)/s
FACILITIES:	Si-Rel
TESTED:	5/7/2014

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Wafer #	SN	Isy @ Vin=5V Ii=0mA				Temp			
		mA				V			
		0K	30k	50k	100K	0K	30k	50k	100K
CNTRL	12	0.7006	0.6991	0.7002	0.6988	0.5618	0.5592	0.559	0.5569
	14	0.6692	0.6664	0.6664	0.6656	0.5678	0.57	0.5678	0.5652
	15	0.6834	0.6779	0.6798	0.6781	0.5663	0.5679	0.5645	0.5613
	16	0.6765	0.6719	0.6719	0.6711	0.5661	0.5696	0.5666	0.5642
	17	0.6754	0.6692	0.6695	0.6687	0.5661	0.5692	0.5663	0.564
	174	0.6586	0.6574	0.656	0.6583	0.568	0.5721	0.5689	0.567
	175	0.6775	0.6731	0.6725	0.6737	0.569	0.5705	0.5683	0.5659
	176	0.657	0.653	0.6545	0.6508	0.5712	0.5756	0.5719	0.569
	177	0.6789	0.6742	0.6746	0.6729	0.5664	0.5686	0.5677	0.564
	min	0.6570	0.6530	0.6545	0.6508	0.5661	0.5679	0.5645	0.5613
	max	0.6834	0.6779	0.6798	0.6781	0.5712	0.5756	0.5719	0.5690
	mean	0.6721	0.6679	0.6682	0.6674	0.5676	0.5704	0.5678	0.5651
	std. dev	0.0097	0.0086	0.0089	0.0090	0.0018	0.0024	0.0022	0.0023
	mean - 3 sigma	0.6431	0.6421	0.6416	0.6405	0.5622	0.5631	0.5613	0.5582
	mean +3 sigma	0.7010	0.6937	0.6947	0.6943	0.5730	0.5778	0.5742	0.5720

Wafer #	SN	Vout @ Vin=5V & Ii=0mA				-Null Adjust Vin=5V Vref=2.5V			
		V				%FS			
		0K	30k	50k	100K	0K	30k	50k	100K
CNTRL	12	2.4997	2.4996	2.4996	2.4996	-5.5272	-5.5163	-5.5163	-5.5219
	14	2.5	2.5005	2.5011	2.5021	-5.5322	-5.5318	-5.5298	-5.5457
	15	2.4998	2.5004	2.5009	2.5019	-5.4802	-5.4798	-5.4896	-5.5057
	16	2.5	2.5006	2.5011	2.5022	-5.5043	-5.5309	-5.5241	-5.5512
	17	2.5002	2.5007	2.5011	2.502	-5.5444	-5.5379	-5.5415	-5.5404
	174	2.5002	2.5008	2.5013	2.5023	-5.55	-5.5432	-5.5364	-5.5508
	175	2.4997	2.5004	2.501	2.5021	-5.4813	-5.4798	-5.484	-5.4815
	176	2.5002	2.5007	2.5012	2.5021	-5.5445	-5.5433	-5.57	-5.5457
	177	2.5	2.5006	2.5012	2.5024	-5.5393	-5.5253	-5.547	-5.5388
	min	2.4997	2.5004	2.5009	2.5019	-5.5500	-5.5433	-5.5700	-5.5512
	max	2.5002	2.5008	2.5013	2.5024	-5.4802	-5.4798	-5.4840	-5.4815
	mean	2.5000	2.5006	2.5011	2.5021	-5.5220	-5.5215	-5.5278	-5.5325
	std. dev	0.0002	0.0001	0.0001	0.0002	0.0291	0.0265	0.0288	0.0252
	mean - 3 sigma	2.4994	2.5002	2.5007	2.5017	-5.6092	-5.6009	-5.6142	-5.6082
	mean +3 sigma	2.5006	2.5010	2.5015	2.5026	-5.4348	-5.4421	-5.4414	-5.4568

Wafer #	SN	+Null Adjust Vin=5V Vref=2.5V				Line Reg 4V to 36V			
		%FS				uV/V			
		0K	30k	50k	100K	0K	30k	50k	100K
CNTRL	12	5.8161	5.8163	5.8164	5.771	0.1566	-0.0174	-0.2784	0.087
	14	5.8645	5.8143	5.813	5.8141	0.1566	0.0522	-0.0522	-0.1218
	15	5.767	5.7658	5.7645	5.8145	0.1218	-0.2262	0.2784	0.0696
	16	5.8155	5.8142	5.8129	5.814	0.087	0.087	-0.261	0.3306
	17	5.8151	5.814	5.8128	5.8143	0.1392	-0.261	-0.174	-0.1044
	174	5.8639	5.8138	5.9102	5.8626	0.2088	-0.0522	-0.0174	-0.5395
	175	5.7674	5.7658	5.7644	5.7653	-0.0174	0.435	0.3828	0.0174
	176	5.8151	5.8627	5.8616	5.9118	0.0522	-0.087	-0.3306	-0.087
	177	5.8644	5.8629	5.8616	5.8624	-0.087	-0.2262	-0.1044	-0.0348
	min	5.7670	5.7658	5.7644	5.7653	-0.0870	-0.2610	-0.3306	-0.5395
	max	5.8645	5.8629	5.9102	5.9118	0.2088	0.4350	0.3828	0.3306
	mean	5.8216	5.8142	5.8251	5.8324	0.0827	-0.0348	-0.0348	-0.0587
	std. dev	0.0405	0.0367	0.0503	0.0446	0.0970	0.2301	0.2496	0.2427
	mean - 3 sigma	5.7000	5.7042	5.6742	5.6985	-0.2083	-0.7251	-0.7835	-0.7869
	mean +3 sigma	5.9432	5.9242	5.9760	5.9663	0.3736	0.6555	0.7139	0.6694

Wafer #	SN	Load Reg 0 to 10mA				Isc V0=0V			
		uV/mA				mA			
		0K	30k	50k	100K	0K	30k	50k	100K
CNTRL	12	29.828	27.5109	28.0678	27.9343	22.1802	22.1802	22.1802	22.1938
	14	32.3646	34.4936	31.7251	33.8484	27.1496	25.6951	24.8467	23.2853
	15	34.1928	98.386	35.5119	36.4547	25.5739	24.1195	23.2711	21.83
	16	34.7471	31.7092	31.2349	31.311	26.3011	24.6043	23.5135	21.83
	17	32.6737	62.2806	32.726	32.047	26.3011	24.8467	24.1195	22.8002
	174	30.0007	30.2598	30.6538	30.3967	27.6344	26.0587	24.9679	23.2853
	175	32.9251	30.7101	47.7348	31.8235	27.1496	25.8163	24.8467	23.2853
	176	28.6423	27.7443	34.4619	29.2639	29.0888	27.5132	26.5435	24.7406
	177	30.8719	35.6946	50.5351	31.8867	26.4223	24.7255	23.7559	21.83
	min	28.6423	27.7443	30.6538	29.2639	25.5739	24.1195	23.2711	21.8300
	max	34.7471	98.3860	50.5351	36.4547	29.0888	27.5132	26.5435	24.7406
	mean	32.0523	43.9098	36.8229	32.1290	26.9526	25.4224	24.4831	22.8608
	std. dev	2.0812	24.5881	7.8052	2.1943	1.0781	1.0817	1.0566	1.0188
	mean - 3 sigma	25.8087	-29.8546	13.4075	25.5460	23.7182	22.1775	21.3133	19.8045
	mean +3 sigma	38.2959	117.6741	60.2384	38.7120	30.1870	28.6674	27.6529	25.9172

